# **CONTRACT DATA REQUIREMENTS LIST**

(1 Data Item)

Form Approved OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and meintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Deparations and Reports (0701-0188), 1215 Jefferson Davis Highway, Suite 1204, Arington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shell be subject to any penelty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please DO NOT RETURN your form to the above address. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. CONTRACT LINE ITEM NO.		B. EXHIBIT		C. CATEGORY: TOP TM OTHER							
D. SYSTEM/ITEM F100-PW-100/-200/-220 Eng		ines	E. CONTRACT/PR NO.		F. CONTRA						
1. DATA ITEM NO.	2. TITLE OF DATA ITEM	,			3. SUBTITLE	Nsn-2840-00-33 oun: Combustion Cl	namber	Guide		17. PRICE GROUP	
A001	A001 Contractor's Configuration Management Plan						Pre-Production Plan				
4. AUTHORITY (Data Acquisition Document No.) DI-CMAN-80858 / T			5. CONTRACT REFERENCE			6. REQUIRING OFFICE  DSCR-JLTB				18. ESTIMATED TOTAL PRICE	
7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUEN	ICY 12. DATE OF FIRST SUBMISSION			14. DISTRIBUTION					
SD	REGUINED		1Time	30DAC  13. DATE OF SUBSEQUENT SUBMISSION N./ A				b. COPIES			
8. APP CODE N/A	A	11. AS OF DA	N/A			a. ADDRESSEE	Draft	Final Reg Repro			
16. REMARKS	IN/A						0	0	1		
Nsn-2840-00-3	37-4374, Part# 4	025365	(77445).			DCM - QAR Vendor DCM					
Block 4. Tailo	ored:										
The Contract A	Awardee shall pro	vide a pl	an for approva	al that ensures all	drawing	DSCR-JLP PCO	0	1	1		
The Contract A and specification The Plan shall drawing(s), sp shall address the	Richmond, VA										
										İ	
(a). A list of all drawing dimensions, surface texture, etc, to be inspected and the equipment to be used for verification of each dimension, surface texture, etc An actual drawing(s) shall be submitted with the Plan that correlates the dimensions on the drawing(s) to those identified on the list.									: :		
(b). A plan to verify that all non-destructive inspections are met.											
(c). A plan to	verify that all visu	ial inspe	ction requirem	ents are met.							
(d). A plan tha	at identifies and m	onitors o	ritical charact	eristic data and pr	ocesses.					: 	
(e). A plan to metallurgical p	verify material properties, and ch					i					
(f). A plan to ensure that all manufacturing processes are performed by the Original Equipment Manufacturer(OEM), Pratt and Whitney, certified vendors.											
(g). A plan to specific forgin	ensure that the fo	rging / c ement, a	asting source i s applicable.	is OEM approved	for the						
(h). The Plan shall identify all external sources for applicable material and process requirements.									1		
(i). The Plan shall identify GFE, GFM, and Tooling requirements if applicable.									į		
(j). The Plan shall identify all aspects of Quality Assurance such as policies, organization, planning, procedures control, responsibilities, and interfaces including calibration, inspection and testing related criteria.											
Additional guidelines for this Plan are contained in LPF-QAR-003.										!	
Block 7. The "Pre-Production Plan" shall be submitted to DSCR for evaluation and approval. A copy shall be submitted to the local DCM Office.											
Block 14. Dis be provided w	stribution as followith the Plan to;										
	1. DCM - QA					1					
					- - -						
G. PREPARED BY	TACONO	o c.ll	H. DATE	I. APPROVED	BY TANC	seoboles 4k	<u>→                                    </u>		2	1	
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<b>DD FORM 1423</b>	1. AUG 96 (EG)	0	F	PREVIOUS EDITION MAY B	USED	/	Page	nf '	2_ Page	<u>-</u>	

# **CONTRACT DATA REQUIREMENTS LIST**

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A. CONTRACT LINE ITEM NO.		B. EXHIBIT		C. CATEGORY:						 
D. SYSTEM/ITEM F100-PW-100/-200/-220 Eng		E. CONTRACT/PR M		NO.	F. CONTRACTOR					
1. DATA ITEM NO. $A002$	2. TITLE OF DATA ITEM	Daliahilia	y Test Report	C	3. SUBTITLE NO	Nsn-2840-00-337-4374 pun: Combustion Chamber Guide duction Lot Test / Inspection Report				17. PRICE GROU
			·		Flou	6. REQUIRING OFFICE	spection	керс	יונ	18. ESTIMATED
4. AUTHORITY (Data Acquisition Document No.)  DI-TMSS-81586 / T						DSCR	-JLTB			TOTAL PRICE
7. DD 250 REQ	9. DIST STATEMENT	10. FREQUEN	CY	12. DATE OF FIRST SUBMISSION	ON .	14. DISTRIBUTION				
SS	REQUIRED	A	ASGEN	30DATC	0 <b>DATC</b>		b. COPIES			
8. APP CODE		11. AS OF DA		13. DATE OF SUBSEQUENT SUBMISSION		a. Addressee	Final Draft		al	
N/A	A	See	Block 16	N/A			Diant	Reg	Repro	
16. REMARKS	DCM - QAR	0	1	1	i					
Nsn-2840-00-3	37-4374, Part# 4	025365 (	77445).			Vendor DCM	-			
Block 4. Tailo	ored:						-			
Use / Relations	ship	100 . 5				DSCR-JLP PCO	0	0	1	
(PLT) and/or I on the first pro	all provide a Finanspection lot manufact	l Test Re for 02-pe sults for	eport on Produ ercent to 100-p 03-percent of	action Lot Sample bercent of drawing all critical charact	Testing rqmt's teristics	Richmond, VA				
Requirements	all address DID page Summary Repo					:				
The Report An	alysis shall addre	ss the fol	lowing as a m	inimum:						
_	-		_	of dwg 4025365 &	z snec's					
			-	•	•					
(b). Verify conformance of QAD 4025365 to include FPI per FPM Code 1 and FPS-M, as well as Visual Inspection per VIS-46 and VIS-Master.  (c). Verify critical process is per drawing note 2 requirements.										
(d). Verify co processes and					:					
(e). Verify test evidence of an					İ					
Quantity shall be selected by the DCM QAR for Awardee testing.										
Quantity may be Lab testing sha contact is 765-										
Destructive tes	sting shall be appr	oved by	the DSCR PC	O only.			+			
	- <del>-</del>			-			+			
Block 7. The the results from quantity upon	Report shall conta n the Sub-Vendor written authorizat									
Block 11. Rep										
Block 14. Dis be provided w										
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#### **INSTRUCTIONS FOR COMPLETING DD FORM 1423**

(See DoD 5010.12-M for detailed instructions.)

#### FOR GOVERNMENT PERSONNEL

- Item A. Self-explanatory.
- Item B. Self-explanatory.
- Item C. Mark (X) appropriate category: TDP Technical Data Package; TM Technical Manual; Other other category of data, such as "Provisioning," "Configuration Management," etc.
- Item D. Enter name of system/item being acquired that data will support.
- Item E. Self-explanatory (to be filled in after contract award).
- Item F. Self-explanatory (to be filled in after contract award).
- Item G. Signature of preparer of CDRL.
- Item H. Date CDRL was prepared.
- Item I. Signature of CDRL approval authority.
- Item J. Date CDRL was approved.
- Item 1. See DoD FAR Supplement Subpart 4.71 for proper numbering.
- Item 2. Enter title as it appears on data acquisition document cited in Item 4.
- Item 3. Enter subtitle of data item for further definition of data item (optional entry).
- Item 4. Enter Data Item Description (DID) number, military specification number, or military standard number listed in DoD 5010.12-L (AMSDL), or one-time DID number, that defines data content and format requirements.
- Item 5. Enter reference to tasking in contract that generates requirement for the data item (e.g., Statement of Work paragraph number).
- Item 6. Enter technical office responsible for ensuring adequacy of the data item.
- Item 7. Specify requirement for inspection/acceptance of the data item by the Government.
- Item 8. Specify requirement for approval of a draft before preparation of the final data item.
- Item 9. For technical data, specify requirement for contractor to mark the appropriate distribution statement on the data (ref. DoDD 5230.24).
- Item 10. Specify number of times data items are to be delivered.
- Item 11. Specify as of date of data item, when applicable.
- Item 12. Specify when first submittal is required.
- Item 13. Specify when subsequent submittals are required, when applicable.
- Item 14. Enter addressees and number of draft/final copies to be delivered to each addressee. Explain reproducible copies in Item 16.
- Item 15. Enter total number of draft/final copies to be delivered.
- Item 16. Use for additional/clarifying information for Items 1 through 15. Examples are: Tailoring of documents cited in Item 4; Clarification of submittal dates in Items 12 and 13; Explanation of reproducible copies in Item 14.; Desired medium for delivery of the data item.

#### **FOR THE CONTRACTOR**

- Item 17. Specify appropriate price group from one of the following groups of effort in developing estimated prices for each data item listed on the DD Form 1423.
- a. Group I. Definition Data which is not otherwise essential to the contractor's performance of the primary contracted effort (production, development, testing, and administration) but which is required by DD Form 1423.

Estimated Price - Costs to be included under Group I are those applicable to preparing and assembling the data item in conformance with Government requirements, and the administration and other expenses related to reproducing and delivering such data items to the Government.

b. Group II. Definition - Data which is essential to the performance of the primary contracted effort but the contractor is required to perform additional work to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, or quality of the data item.

Estimated Price - Costs to be included under Group II are those incurred over and above the cost of the essential data item without conforming to Government requirements, and the administrative and other expenses related to reproducing and delivering such data item to the Government.

c. Group III. Definition - Data which the contractor must develop for his internal use in performance of the primary contracted effort and does not require any substantial change to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, and quality of the data item.

Estimated Price - Costs to be included under Group III are the administrative and other expenses related to reproducing and delivering such data item to the Government.

d. Group IV. Definition - Data which is developed by the contractor as part of his normal operating procedures and his effort in supplying these data to the Government is minimal.

Estimated Price - Group IV items should normally be shown on the DD Form 1423 at no cost.

Item 18. For each data item, enter an amount equal to that portion of the total price which is estimated to be attributable to the production or development for the Government of that item of data. These estimated data prices shall be developed only from those costs which will be incurred as a direct result of the requirement to supply the data, over and above those costs which would otherwise be incurred in performance of the contract if no data were required. The estimated data prices shall not include any amount for rights in data. The Government's right to use the data shall be governed by the pertinent provisions of the contract.

# OC-ALC/LPFR QUALITY ASSURANCE REQUIREMENTS FOR

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## FIRST ARTICLE TEST PLANS AND REPORTS

- 1. This document provides guidelines for the preparation of first article test plans/test reports for F100 engine parts where referenced within the first article data of a contract.
- 2. FIRST ARTICLE QUANTITY. The quantity of first articles shall be per the contract. The quantity of articles allowed for destructive testing, in accordance with the contract, shall be tested per the first article procedure in its entirety, to include the destructive testing. The remaining articles shall only be tested per the nondestructive portions of the procedure.
- 3. TESTING REQUIREMENTS.
  - 3.1. Testing shall consist of, but shall not be limited to, the verification of the following.
    - 3.1.1. Dimensional conformance including finish requirements.
    - 3.1.2. Conformance to non-destructive inspection requirements (FPI, Ultra-sonic, Eddy Current, X-ray, visual)
    - 3.1.3. Conformance of material properties to include mechanical, metallurgical and chemical.
    - 3.1.4. Conformance to other required processes, specifications, and standards listed on the drawing including sub-tier specifications and standards, special requirements as described in the engineering instructions (EI), quality plans, etc.
  - 3.2. First articles shall be serialized. Serial Numbers are to be identified prior to commencement of testing unless otherwise specified.
  - 3.3. Dimensional Inspection.
    - 3.3.1. All dimensions, as listed on the assembly drawing and detail drawings, to include drawing notes, shall be measured where possible on all first articles 100% (no sampling allowed).
    - 3.3.2. A tabular format shall be used with drawing dimension, tolerance, measurement, and instrument/gage/tooling/serial number used.
    - 3.3.3. All tooling and gaging used for inspection and acceptance/rejection of first articles shall have calibrations from a laboratory traceable to NIST and in accordance with ISO 10012-1 (formerly MIL-STD-45662), listed in a (tooling & gaging table) table, table shall include nomenclature, serial number, calibration frequency, next calibration date, range, least increment, and accuracy. Listing shall also include alignment tools and constraint fixtures.
    - 3.3.4. Inspection results shall be presented in a table showing the feature measured, dimension and tolerance, actual reading and gage serial number used.
  - 3.4. Nondestructive Inspections (NDI), including Fluorescent Penetrant Inspections (FPI), Ultrasonic Testing (UT), Eddy Current (EC), Radiographic Testing (x-ray), and visual inspections, shall meet the following:

# OC-ALC/LPFR QUALITY ASSURANCE REQUIREMENTS FOR

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## FIRST ARTICLE TEST PLANS AND REPORTS

- 3.4.1. All first articles shall receive 100% of the inspections identified on the QAD. Sampling shall not be allowed.
- 3.4.2. NDI shall be per the applicable specification(s).
- 3.4.3. Sources used shall be Pratt&Whitney approved per the OC-ALC/LPFR letter granting source approval to the contractor.
- 3.4.4. NDI results shall be presented in a table showing the feature inspected, acceptance/rejection criteria used, results and gage/master serial number used. In cases where photographic standards within a VIS specification are applied to an NDI, the inspection report shall include a copy.
- 3.4.5. Inspection Masters/Transfer Masters shall have current calibrations. A copy of the calibration(s) shall be included into the report.
- 3.4.6. Level III or Level II inspectors, as applicable, shall be required. A copy of the inspector's certification(s) shall be included into the report.
- 3.5. Visual Inspections shall include:
  - 3.5.1. Specific visual inspections per a Pratt&Whitney Visual Inspection Standard (VIS) document shall be called out of the applicable VIS and cited as specific inspections.
  - 3.5.2. Visual inspection results shall be presented in a table showing the feature inspected, acceptance/rejection criteria used, results, and gage/master serial number used (as applicable).
  - 3.5.3. In cases where photographic standards within the VIS are used, the inspection report shall include a copy.
- 3.6. Material properties testing shall include mechanical properties, metallurgical properties, and chemical composition tests, as applicable, per the material specifications and the following:
  - 3.6.1. Composition, heat treat condition, and other characteristics/properties, as listed in the technical requirements section, acceptance section, and/or quality sections of the specification(s) so as to verify that the materials and processes are sound, clean, and free of imperfections detrimental to the performance of the part or assemblies.
  - 3.6.2. In some cases a material suppliers certification will not be sufficient and the Contractor shall have redundant testing performed.
  - 3.6.3. Metallurgical microanalysis, as applicable, for raw materials, weldments, brazements, and coatings shall be conducted. Results shall include the complete laboratory report including photomicrographs.
  - 3.6.4. Mechanical testing, as applicable, per manufacturing specifications and the drawing(s).

# OC-ALC/LPFR QUALITY ASSURANCE REQUIREMENTS FOR

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### FIRST ARTICLE TEST PLANS AND REPORTS

3.6.5. In cases where the applicable specifications require test reports, these shall accompany the First Article Test Report (FATR).

## 4. SUBMITTAL.

- 4.1. The First Article Test Plan (FATP) shall be delivered to the Contracting Officer in accordance with the schedule as listed in the contract, or Form DD1423. The FATP shall provide a detailed description of specific testing instructions to be used. Generalized instructions will not be acceptable.
- 4.2. The First Article Test Report (FATR) shall be delivered to the Contracting Officer in accordance with the schedule as listed in the contract, or Form DD1423. All laboratory test results, including those resultant from testing conducted at the contractor's facility and including sub-vendor testing, shall be provided with the FATR in their complete form as provided by the testing laboratory(ies).

#### 5. DISPOSITION OF PARTS.

- 5.1. When required by the contract, the remnants from destructive testing shall be delivered with the First Article Test Report.
- 5.2. When required by the contract and following the completion of non-destructive testing, one article shall be delivered to the Contracting Officer and packaged in accordance with contract requirements. Marking on the package shall be **UNSERVICEABLE Condition Code "R"**. Deliver this part with the First Article Test Report. The other(s) shall be handled in accordance with the contract.

### 6. GENERAL REQUIREMENTS.

- 6.1. All First Articles and all Production Articles shall be fabricated from material whose metallurgical state is in compliance with the drawing requirements, as well as all sub-tier specifications and standards referenced therein.
- 6.2. All First Articles and all Production Articles shall be new manufactured under this contract. No items manufactured under previous contracts shall be delivered without approval.
- 6.3. The subcontractors previously identified by the contractor as sources to be employed, to include laboratory testing, shall be the only sources used. If the contractor wishes to employ a subcontractor other than previously identified, they shall substantiate that the new source is OEM approved for the specific testing required. A change in the address of a source shall be construed as a change of source. Employment of alternate sources shall only be authorized by OC-ALC/LPFR.

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6.4 Engineering Instructions shall take precedence over all other technical instructions

#### **DATA ITEM DESCRIPTION**

Title: Contractor's Configuration Management Plan

Number:DI-CMAN-80858BApproval Date:20000930AMSC Number:D7392Limitation:N/ADTIC Applicable:NoGIDEP Applicable:No

Office of Primary Responsibility: D/DUSD(AT&L)SE

**Applicable Forms:** N/A

**Use, Relationships:** The Contractor's Configuration Management (CM) Plan describes the contractor's configuration management program, how it is organized, how it will be conducted, and the methods procedures and controls effective configuration identification, change control, status accounting, and audits of the total configuration, including hardware, software and firmware. The principle use is to provide the government a basis for review, evaluation and monitoring of the CM program and its proposed components.

This Data Item Description (DID) contains the content and preparation instructions for the data product resulting from the work task specified in the contract.

Data Item Description submittal in Extensible Markup Language (XML) is acceptable. An XML Document Type Definition (DTD), associated XML document template, and other information is available from <a href="http://www.geia.org/836/">http://www.geia.org/836/</a>

This DID supersedes DI-CMAN-80858A.

### **Requirements:**

- 1. <u>Reference documents.</u> The applicable issue of any documents cited herein, including their approval dates and dates of any applicable amendments, notices, and revisions, shall be as specified in the contract.
- 2. <u>Format and content.</u> The Contractor's CM Plan shall be prepared in contractor format. The Contractor's CM Plan content shall be in accordance with the contractor's processes and procedures, or as specified in the contract. The following references may be useful in defining content: ANSI/EIA-649-1998, National Consensus Standard for Configuration Management (paragraphs 5.2.5 and 5.3.3); ISO 10007, Quality Management-Guidelines for Configuration Management; and MIL-HDBK-61, Configuration Management Guidance (Section 2 and Appendix A).

END OF DI-CMAN-80858B

#### Title: Reliability Test Reports

Number: DI-TMSS-81586 Approval Date: 5 October 2000

AMSC Number: G7401 Limitation: N/A DTIC Applicable: N/A GIDEP Applicable: No

Office of Primary Responsibility: G/Y243

Applicable Forms: N/A

#### Use/relationship:

These reports are formal records of the results of the contractor's reliability tests and will be used by the procuring activity to evaluate the degree to which the reliability requirements have been met. The reports shall be periodic test summary reports (see 3.1 below) or Final Test Reports (see 3.2 below) as reflected in the contract. These reports may be used to report the results of reliability tests or tests from which reliability evaluation is a by-product.

#### Requirements:

- 1. Reference documents: None
- 2. Format: Contractor format is authorized.
- 3. Content: The Reliability Test Reports shall contain the results of each test or other action taken to demonstrate the level of reliability achieved in the contract end item and its constituent elements required by the contract. The reports shall specifically contain the following:
- a. Test article identification and full description of test specimens utilized, including any deviations from the configuration specified in the applicable test plan.
  - b. Date and location of test or evaluation.
- c. Statement of test/evaluation objectives, including type, unit of measure, and quantitative goals/requirements to be demonstrated.
  - d. Statistical confidence calculations, if appropriate.
- e. Discussion of methods and conditions of the demonstration, including test plan used, environmental levels, test profile, methods of evaluating the data obtained and comparison of the conditions with those anticipated in ultimate deployment and use of contract item.
- f. Results obtained, including specific identification and discussion of objectives demonstrated satisfactorily and those not demonstrated satisfactorily.
  - g. Corrective action anticipated, if applicable.
- h. Contractor's conclusion and recommendations based on evaluation of the test/demonstration results.
- i. Requirements for and results of retest in cases where a reject decision were reached.
- 3.1 Summary reports. Periodic Test Summary Reports shall consist of summaries of the progress or status of various reliability tests underway during the reporting period. All periodic summaries shall include the following:

Page 1 of 2 Pages

#### DI-TMSS-81586

- a. Type and number of units on test and the type of test.
- b. Total elapsed unit hours of test time during the period covered in the report.
- c. Total number of equipment failures for each operational mode specified in the duty cycle.
- d. Description of each failure problem area, related failure analysis, and corrective action.
- e. Test conditions and analysis of any variation from specified conditions.
  - f. Present accept/reject status.
- g. A chart showing a plot of the observed Mean Time Between Failures (MTBF) from start of test through the report period and the predicted value of MTBF for comparison.
  - h. The status and/or disposition of each corrective action
- 3.1.1 It is intended that the text of these reports be limited to brief, concise statements of significant progress and present status.
- 3.2 Final report. The Final Reliability Test Report shall include the information required by 3.1, items a. through h., and the results of the completed reliability tests or other action performed or evaluated to demonstrate reliability. The Final Report can be divided into two parts: Part 1, covering Reliability Qualification Testing, and Part 2, covering Production Reliability Acceptance Tests. Test reports shall include a failure summary and analysis and a general reliability analysis.
- 3.3 It is intended that the text of these reports be limited to brief and concise statements.